

## REMARKS/ARGUMENTS

Reconsideration of this patent application is respectfully requested in view of the foregoing amendments. Claims 8-13 are in the application. Claim 8 has been amended.

Claims 8-13 have been rejected under 35 U.S.C. § 112, second paragraph. The Examiner states that "an axis of said groove" is unclear. Applicant has amended claim 8 to clarify the position of the lug, stating that it projects toward a middle plane of the groove. This plane runs perpendicular to the axis of the piston, so that the lugs project into the groove to create an undercut. This can be seen in the drawings, in particular in Fig. 1c, where lug 32 projects toward a center of the groove.

Claims 8-13 were rejected under 35 U.S.C. 103(a) as being unpatentable over Bosch in view of Reid and Benware. Applicant respectfully traverses.

Reid is not relevant to the present invention, as the groove in Reid is not a peripheral groove, but rather is embedded completely within the components of the device. In Figs. 17 to

23, the use of the sealing ring in a piston's groove is shown, and the groove with the embedded sealing ring is completely surrounded by components of the device, and no opening cross section exists, as with the peripheral groove of the present invention, which is located on the periphery of the device. Therefore, the structure of Reid is not a peripheral groove as claimed in claim 8 of the present application.

In Benware, the main seal consists of one component (part 119 on the cover sheet) sealing in two directions. In the present invention, two seals are claimed, one for each pressure direction. Benware uses an O-ring to provide the required tightness behind the seal on the inside of the groove. The present invention is without O-rings altogether. The Benware seal without O-rings is drawn with a spring. However, it is not indicated how the leak path from left to right – and vice versa – behind the seal through the inside of the groove is prevented. Applicant asserts that the spring-loaded Benware seal does not function at all, because it will leak. The seals of the present invention does not require an O-ring to work properly, and seals both on the outer diameter and on the inner diameter inside the groove. The Benware spring-loaded version fails to seal within

the groove, so that it will not function.

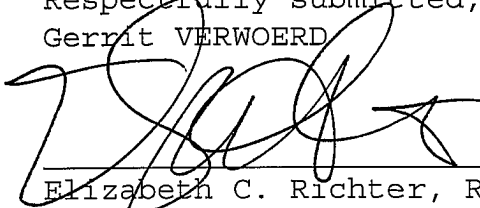
Reid requires an O-ring to seal properly. It will not be possible to seal properly with the seal of Reid, if the O-ring is replaced by a spring taught by Benware.

Furthermore, combining lugs of Benware with a groove of Reid in the device of Bosch would not lead to the present invention, because Reid does not show a peripheral groove in the cylinder as described above. The groove and seal of Reid, with the lugs of Benware would not meet the requirements of claim 8.

Therefore, combining Bosch, Reid and Benware would not lead to the present invention because none of the references teaches or suggests the features claimed in the amended claims.

In summary, claim 8 has been amended. In view of the foregoing, withdrawal of the Examiner's rejection and allowance of this application are respectfully requested.

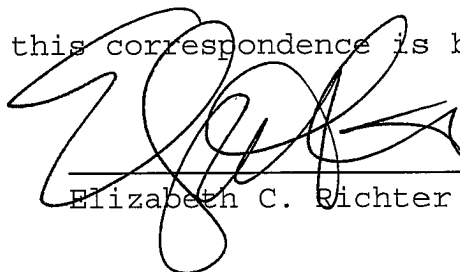
Respectfully submitted,  
Gerrit VERWOERD



Elizabeth C. Richter, Reg.No.35,103  
Attorneys for Applicant

COLLARD & ROE, P.C.  
1077 Northern Boulevard  
Roslyn, New York 11576  
(516) 365-9802  
ECR:cmm

I hereby certify that this correspondence is being filed  
June 23, 2008.



Elizabeth C. Richter